#### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927610020-4

L 17871-63 ACCESSION NR: AP3003707

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for most of the components. 7 Tests with a spectrometer having a resolution of 0.4% showed that the regulator provides adequate current stabilization. The characteristics of the regulator are: current range: 200 nA to 15 amp; drift over a period of one hour 1 in  $6 \times 10^4$ ; current change as a result of 10% line voltage rise: under 1 in  $2 \times 10^3$ ; ripple at 6 amp; under 1 in  $1.5 \times 10^4$ . Orig. art. has: 4 formulas and 6 figures.

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ASSOCIATION: none

SUBMITTED: CO

DATE ACQ: 02Aug63

ENCL: 00

SUB CODE: GE, SD

NO REF SOV: 002

OTHER: 0000

 $Card^2/2$ 

GORDINA, R.V.; ZAKHAROVA, M.S.; OSTROUKHOVA, D.I.; KURAGINA, R.V.; KORASHEVICH. V.P.

Epidemiological effectiveness of partussis-diphtheria-tetanus vaccination. Zhur.mikrobiol.,epid.i immun. 40 no.12:9-13 D 163.

(MIRA 17:12)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR i Sanitarno-epidemiologicheskoy stantsii Krasnodarskogo i Stavropol'-skogo krayev.

Ockidus, R.V.; Zakharova, H.:.; Offroukhova, D.I.; Kuragina, R.V.

Pata on the reactogenicity of pertusais-ciptheria-tetanus vaccine.
Zhur. mikrobiol., epiä. i immun. 40 no.9.14-18 S\*63.

(MIRA 17:5)

1. Presnoiziokaya krayevaya memiterna-opidemiologicheskaya stantsiya.

KURAGINA, R. V.

"Current Tasks of Microbiological Sci entific Research Institutes in the Field of Research and Production of Bacterial Preparations," Zhur. Mikrobiol., Epidemiol. i Immunobiol., No. 8, 1954

## KURAGINA, R.V.

Variability of Corynebacterium diphtheriae following treatment with antibiotics. Zhur. mikrobiol. epid. i immun. no.1:61-65 Ja '55.

(MIRA 8:2)

1. Iz otdela detskikh infektsiy (zav. Z.I.Galunina) Gor'kovskogo nauchno-issledovatel'skogo instituta vaktsin i syvorotok (dir. A.A. Golubev, nauchnyy rukovoditel' prof. F.T.Grinbaum)

(CORYNEBACTERIUM DIPHTHERIAE, effect of drugs on,

(CORYNEBACTERIUM DIPHTHERIAB, effect of drugs on antibiotics)
(ANTIBIOTICS, effects, on Corynebacterium diphtheriae)

Translation M-106-5, 13 April 3

FAZEKAS, Gyula, I.; RENGEI, Bela; HARMATH, Ferenc; KURAI, Janos.

产生,自由的现在分类的类似的研究和全类类似的影響。 网络黑色亚洲 人名日本

Determination of ether concentration in blood and in organs by Widmark's method after lethal ether anesthesia in animal experiments. Kisérletes orvostud. 8 no.1:22-33 1956.

1. Szegedi Orvostudomanyi Egyetem Igazsagugyi Orvostani Intezete.

(ETHYL ETHER

concentration in body fluids & organs after lethal anesth. in animal exper., determ. by Widmark's method, results (Hun))

(BODY FLUIDS

ether concentration, determ. after lethal anesth. in animal exper., results (Hun))

(AMESTHESIA, INHALATION

ether, lethal, determ. of ether concentration in body fluids & organs after death in animal exper. (Hun))

Hypertrophic gastritis simulating a tumor in roentgenographic examination. Magy radiol. 13 no.6:356-359 N '61.

1. Szegedi Orvostudomanyi Egyetem Rontgen Klinikajanak kozlemenye Igazgato: Szenes Tibor dr. egyetemi tanar.

(GASTRITIS radiog) (STOMACH neopl)

Gastric polyp simulating duodenal tumor. Magy radiol. 14 no.1:45-47 Ja 162.

1. Szegedi Orvostudomanyi Egyetem Rontgen Klinikajanak kozlemenye. (Igazgato: Szenes Tibor dr. egyetemi tanar)

(STOMACH NEOPLASMS radiog) (DUODENUM neopl)
(POLYPI radiog)

CHARTHARMAN MINISTER PROPERTY AND A SECTION OF

Local hypertrichosis in sarcoma of the femur. Magy. radiol. 14 no.2: 110-112 Mr '62.

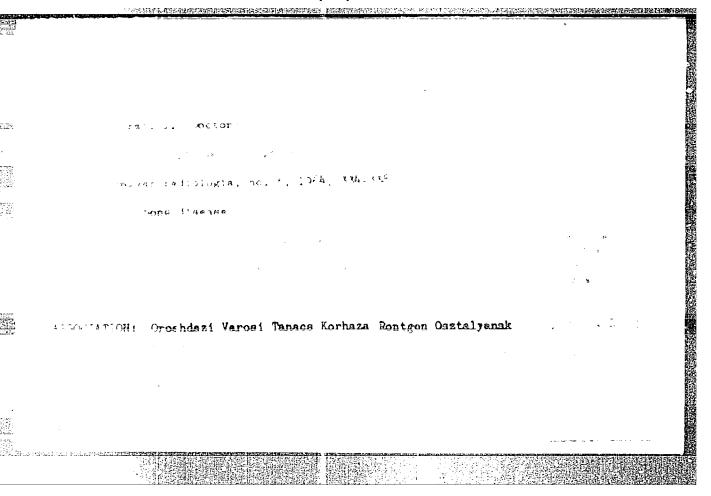
1. Szegedi Orvostudomanyi Egyetem Rontgen Klinikajanak kozlemenye. Igazgato: Szenes Tibor dr. egyetemi tanar.

(FEMUR neopl) (SARCOMA case reports)
(HYPERTRICHOSIS etiol)

Abdominal aortic aneurysm perforated into the duodenum. Magy. radiol. 14 no.3:151-153 Je 162.

1. A Szegedi Orvostudomanyi Egyetem Rontgen Klinikajanak (igazgato: dr. Szenes Tibor egyetemi tanar) kozlemenye.

(DUODENUM dis) (AORTIC ANEURYSM compl)



#### HUNGARY

KURAT, Janos, Dr. City Council of Oroshaza, Hospital, Radiology (Oroshazai Varosi Tanacs Korhaz, Rontgenosztaly).

"Diverticulosis of the Bulbus."

Budapost, Magyar Radiologia, Vol XIX, No 1, Feb 67, pages 42-44.

Abstract: [Author's English summary modified] In the case reported, involving post-bulbur ulser which penetrated into the pancreas, diverticulosis of the bulbus and of the ducdenum and observed by the author, 2 Hungarian, 6 Western references.

1/1

KURAKAYA, V. P.

"The Problem of the Rational Distribution of the Meteorological Network of Third Class Stations," Trudy CGO, No h (\*6), 1947.

L 18858-63

EWT(1)/FCC(w)/BDS

AFFTC/ASD/IJP(C)

ACCESSION NR: AT3002108

5/2910/61/001/01-/0101/0117

Kurakevich, V.A.

AUTHORS: Bolotin, A.B., Gensayte, Ye.B.,

TITLE: molecules Application of two-center functions in calculations of Biatomic

SOURCE: AN Lit SSR. Litovskiy fizicheskiy sbornik. v.l, no.1-2, 1961, 101-117

TOPIC TAGS: wave function, single-electron wave function, two-center wave function, Schroedinger equation, biatomic, molecule, ion, H, hydrogen

ABSTRACT: This theoretical paper deals with the two-center single-electron wave functions which have been obtained by others as the result of a solution of the Schroedinger equation for the positive ion of the Hydrogen molecule. The primary task of this paper is an application of the Bates functions (Bates, D.R., et al., Roy. Soc., Proc., v. A234, 1956, 207) to the calculation of biatomic molecules for the case when the wave function of the system is constructed in the form of determinants, consisting of said functions, on the premise that a single type of equivalent electrons exists. The effective charge is determined from the condition of minimum energy of the system. The general equation is obtained for the energy of a molecule in the form of a sum of integrals of the elliptical coordinates,

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which can be calculated by numerical integration; in a particular case, they are reduced to tabulated integrals. All ultimate equations appear in two forms: The first affords a possibility of employing Bates' tables, recomputed for suitable values of the effective charge, wherein the matrix element of the interaction operator of the electrons is determined by numerical integration. The second affords a possibility of reducing all integrals of the theory to the tabulated ones; the full employment of the Bates tables, of course, is thereby excluded. With further reference to the two possible methods for the calculation of biatomic molecules with identical nuclei by means of the two-center functions, it is noted that the first of them, that is, the method employing the tables of the parameters, the energy, and the coefficients of the Bates wave functions, conceives of the energy of a system rationally in the form of the sum of the energy of the electrons relative to the nucleus and the energy of interaction between the electrons. The first term of this sum can be calculated with the aid of Bates' tables as recomputed for suitable values of the effective charge (see above). The second term of the sum is found by numerical integration. Consequently, for the calculations undertaken, it is advisable to tabulate the integrals in terms of which the matrix elements of the interaction operator between equivalent and nonequivalent electrons can be expressed. The second method, in which the effective charge is varied for specified R and 2 o in integers, leads to the integrals tabulated by M. Kotani et al.,

Card 2/3

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ACCESSION NR: AT3002108

Phys. Mat. Soc. Japan, Proc., v. 20, extra no.1, 1938. This variant eliminates the employment of the Bates tables for the parameters and for the energy. The maximum accuracy of this method does not exceed the accuracy of the graphs employed. The first variant can achieve almost any desired degree of accuracy. "The authors express their cordial gratitude to M.G. Veselov and M.I. Petrashen for their attention and valuable advices proffered in the course of this work. The authors also thank A.P. Yutsis, N.D. Sokolov, and I.B. Levinson for comments and observations on the work." Orig. art. has 90 numbered formulas.

ASSOCIATION: Vilinyusskiy gosudarstvenny\*y universite't imeni V. Kapsuka-sa (Vilnyus State University)

SUBMITTED: 03Nov60

60 DATE ACQ:

23Apr63

ENCL:

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NO REF SOV: 001

OTHER: 008

Card 3/3

KURAKHTANOV, D.D.; KHAYRUTDINOV, R.M.; POZNYAKOV, M.V.

Efficient use of scrap for the purpose of lowering residual impurities in the metal. Stal' 25 no.7:616-618 J1 '65. (MIRA 18:7)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii.

ZAVOLOKIN, A.K. (Moskya); KURAKHTANOV, G.I. (Moskya)

Design of a volt-to-digit converter. Avtom.i telem. 21
no.6:902-906 Je '60. (MIRA 13'7)

(Pulse techniques(Electronics))

KURAKHTANOV MIA.

USSR/Physiology of Plants. Mineral Nutrition

I-2

Ref Zhur-Biologiya, No 2, 1958, 5633

Mos Jour

Author

M. A. Kurakhtanov and L. M. Garmash Moscow Agricultural Academy imeni K. A.

Inst

Title

Effect of Ammonium and Nitrate Nitrogen on Phos-

phorus Nutrition of Oats and Barley Plants

Orig Pub

Dokl. Mosk. s-kh. akad. in K. A. Timiryazeva,

1956, vyp. 22, 332-339

Abstract

Nitrogen fertilizers on a base of different doses of P were introduced into water cultures containing the Gel'rigel's nutritive mixture. Plants containing N from an ammonium source were found to have absorbed relatively more P than those with N from a nitrate source. With an ammo-

nium source of N as compared with a nitrate

Card 1/2

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Abs Jour

Ref Zhur-Biologiya, No 2, 1958, 5633

Abstract

source, increased doses of P had a negative effect on the yields of oats and barley, while small doses had a negative effect on the yields of oats, but had no effect at all on the yields of barley. Large doses of K somewhat weakened the negative effect of ammonium N on the growth of the plant. A rise in the level of phosphate nutrition with an increase in mineral phosphorus caused a rise in the content of organophosphorus compounds in the plants, particularly of nucleoproteides, phytin, and sugar

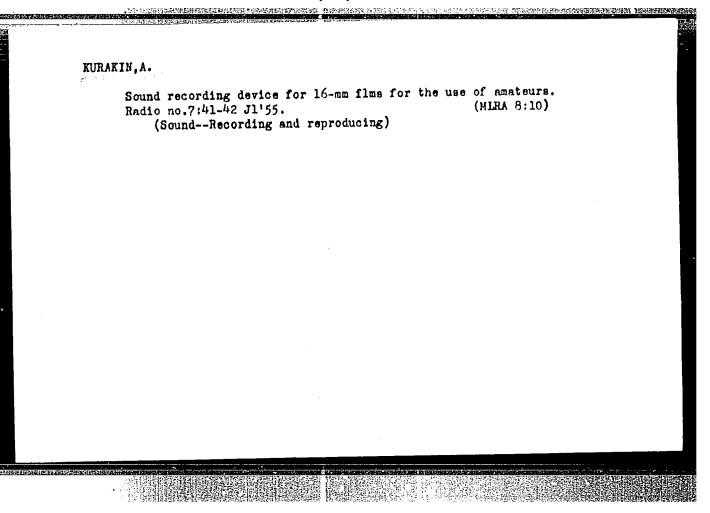
KURAKHTANOV, Vladimir Mikhoylovich; PETROV, L., red.; NOGINA, H., tekhn.red.

[First Printed Cotton Fabric Factory] Pervaia sittsenabivnaia.

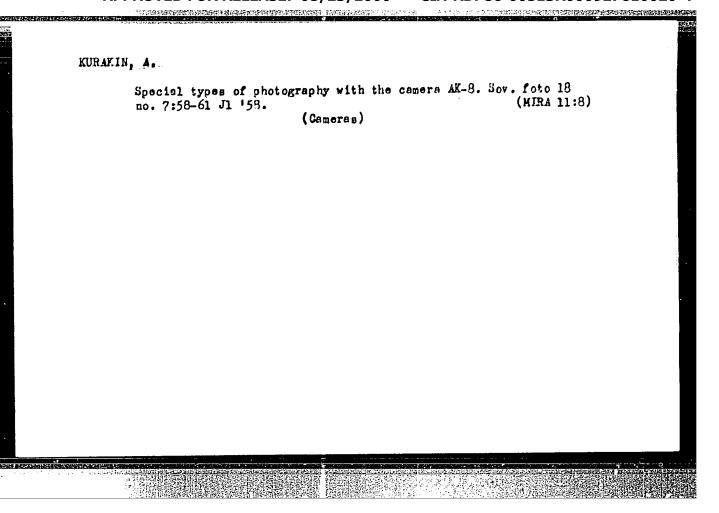
Moskvo, Izd-vo sotsial'no-ekon.lit-ry, 1960. 141 p.

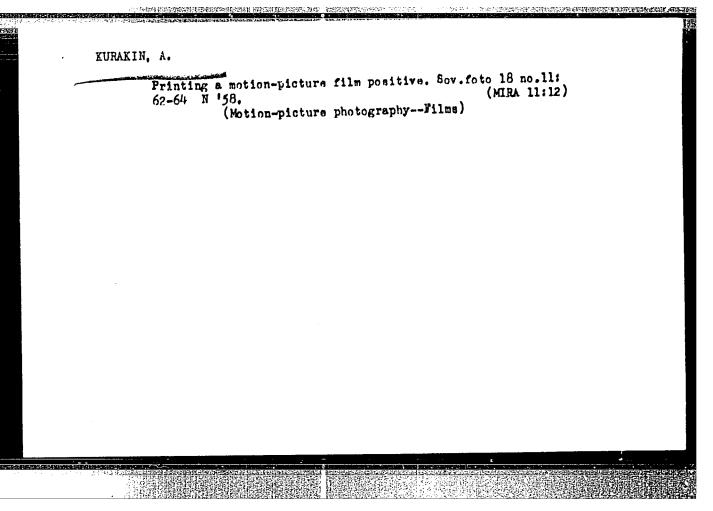
(Moscow--Textile industry)

(Moscow--Textile industry)



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		(Cinematography)	

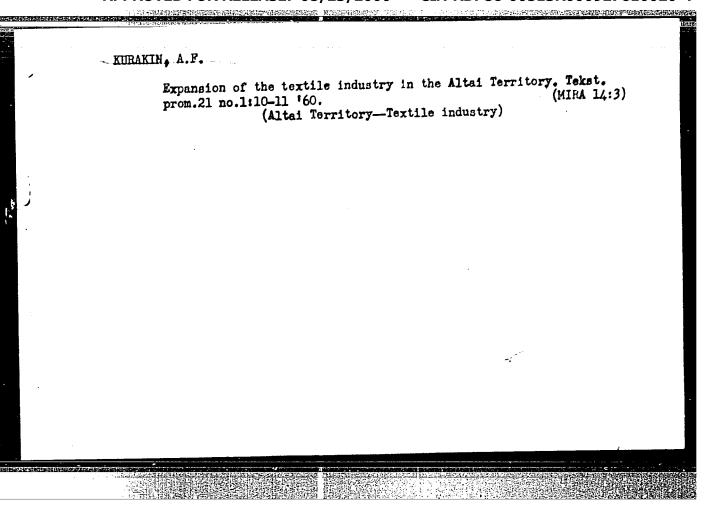




# Altai Economic Administrative Region and problems of its development. Izv. AN SSSR. Ser. geog. no.6:38-46 N-D '60. (MIRA 13:10)

1. Permskiy gosudarstvennyy universitet im. A.M. Gor'kogo.
(Altai Territory--Economic policy)

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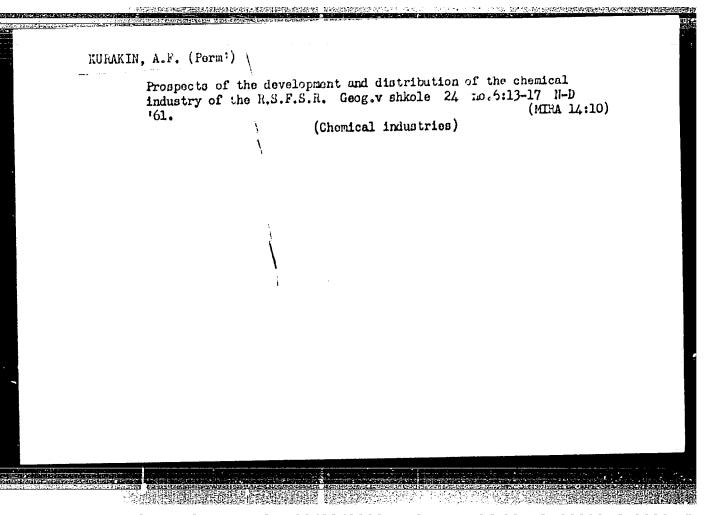
KURAKIN, A.P.

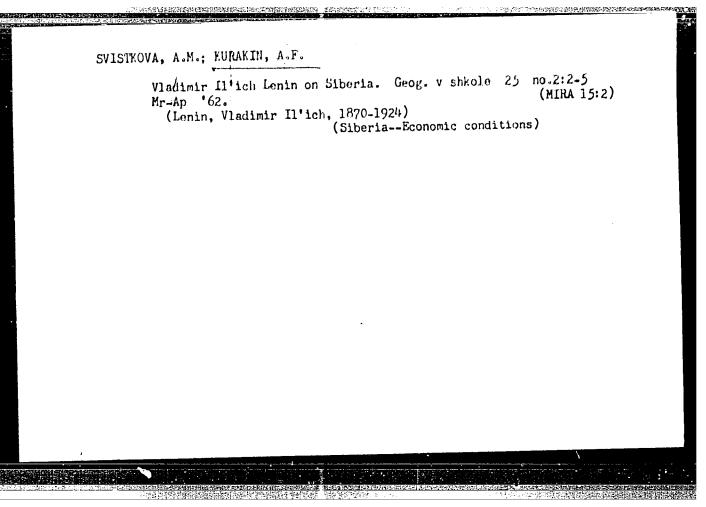
Matural salts of Kulunda. Priroda 49 no. 12:61-62 D '60. (MIRA 13:12)

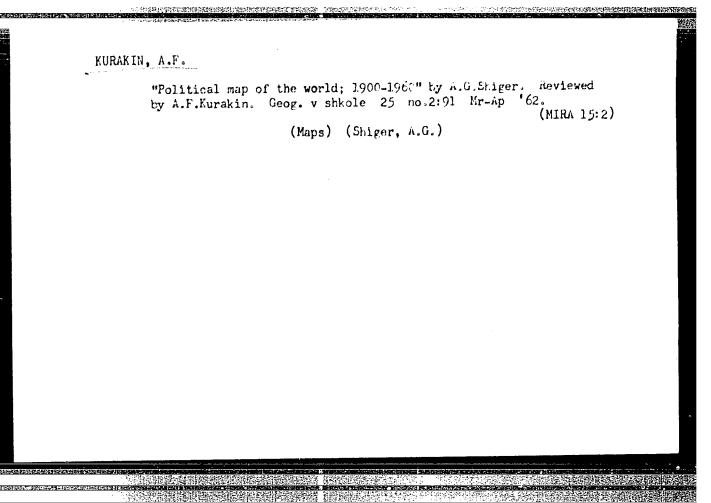
1. Permskiy gosudarstvennyy universitet im. M.Gor'kogo. (Kulunda steppe--Salts)

KURAKIN, A. F., Cand. Geogr. Sci. (diss) "Role of Chemical Industry in the Formation of the Altay Territorial-Production Complex," Perm, 1961, 18 pp (Rostov State Univ.) 150 copies (KL Supp 12-61, 257).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610020-4"







Dyes of the Altai Territory. Priroda 51 no.4:94 ap '62.  (MIRA 15:  1. Permskiy gosudarstvennyy universitet im. A.M.Gor'kogo.  (Altai TerritoryPigments)	. (L)					
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KURAKIN, Anatoliy Fedorovich; LUFYNIII, Leonid Aleksandrovich; MALKOV, Il'ya Yefimovich; YEL'KOV, F., red.; ZEDAHOVA, G., tekhn. red.

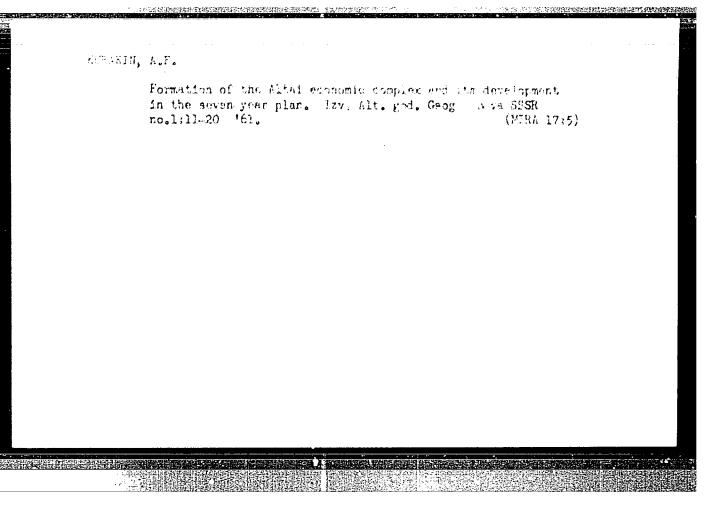
[Development of the chemical industry of the Altai] Razvitie khimicheskoi promyshlennosti na Altae. Barnaul, Altaiskoe knizhnoe izd-vo, 1962. 83 p. (MIRA 16:12) (Altai Territory-Chemical industries)

KURAKIN, A.F.

Economic administrative regions, their specialization and comprehensive development. Izv. AN SSSR. Ser. geog. no.4:43-51 J1-Ag '62. (MIRA 16:5)

1. Permskiy gosudarstvennyy umiversitet.

(Economic zoning)



Some problems to the development of the income king connective to the devict Theretory. Lev. Alt. col. Georg. obey Main made (Main 197-199) to 3.

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RURAKIN, A.F.

Prerequicites and conditions of developing the paint industry in the Altai. Uch. zap. Ferm. gos. un. 23 no.4:45-48 163.

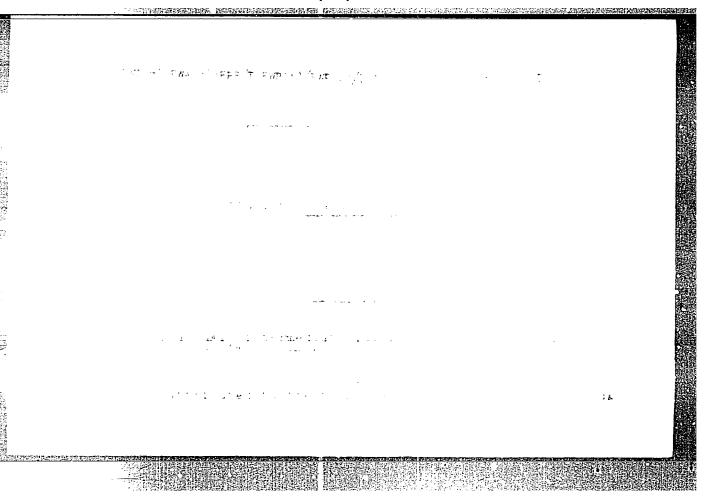
(MIRA 17:10)

KURAKIN, A. T.

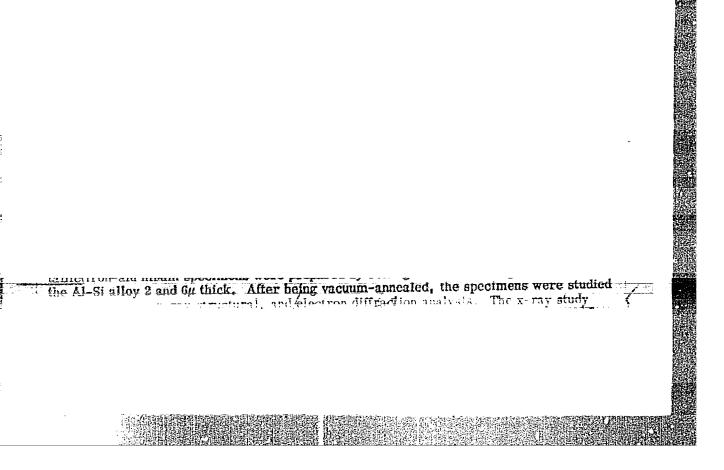
"Determining the Sign of the Charge of Primary Particles of Cosmic Rays by Measuring the Ezimuth Asymmetry in the Stratosphere in the Region of the Equator," Dokl. AN 68, No 2, 1949 Acad. of Sci.

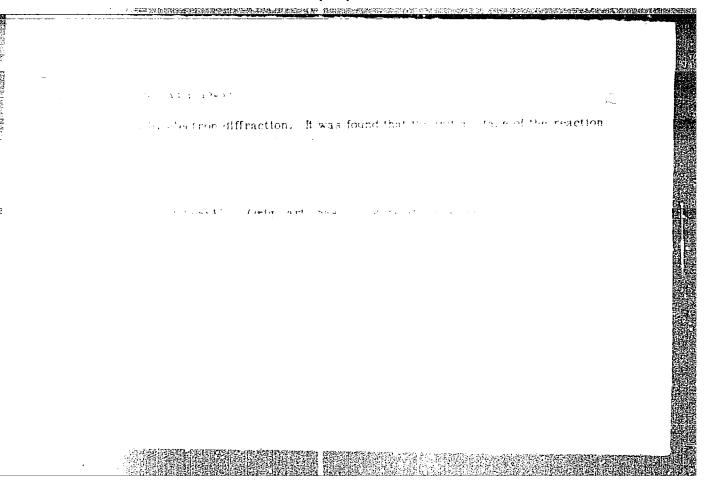
Moscow State Univer. \* Inst. of Phys. im. P. N. LEBRDEV,

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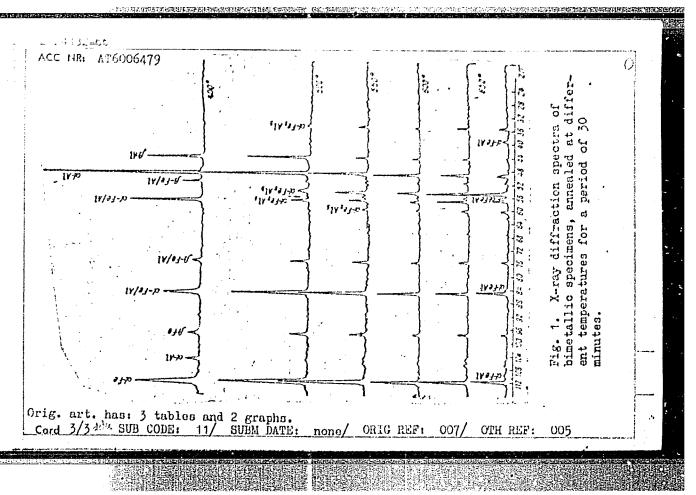


#### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927610020-4

ACC TIR. 116006479 SOURCE CODE: UR/2690/65/000/024/0124/0130 AUTHORS: Layner, D. I.; Kurakin, A. K. 171 ORG: State Scientific Research and Devien Institute of Alloys and Nonferrous Ketalworking, Moscow (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut aplavov i obrabotki tavetnykh metallov) The reaction diffusion of iron into aluminum SOURCE: Moscow. Gosudarstvennyy muchmo-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy, no. 24, 1965. Metallovedeniye i obrabotka tavetnykh metallov i splavov (Metal science and the treatment of nonferrous metals and alloys), 124-130 TOPIC TAGS: aluminum, iron, aluminum compound, intermetallic compound/ AV000 aluminum, Armeo Airor ABSTRACT: This investigation was undertaken to resolve the present controversy concerning the nature of the compounds formed in the solid state diffusion of iron into aluminum. Electron and x-ray diffraction spectra of bimetallic specimens consisting of Armco A iron and high purity aluminum AVOOO were investigated. The aluminum coating of the specimens was of sufficient thickness (2 and 6  $\mu$ ) to yield a characteristic aluminum x-ray pattern, as suggested by M. M. Umanskiy and M. P. Shaskol'skaya (ZhTF, 1964, vyp. 11, t. 14, str. 1283--1290). The experimental results Card 1/3

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re presented in diffusion of iron compound FeAl3.	graphs and table into aluminum t At higher temper	es (see Fig. begins at 350 ratures (up t	1). It was foun OC and gives rise to 400C) Fe <sub>O</sub> Al <sub>E</sub> i	d that the s to the form s formed, an	olid state ation of the	ne the
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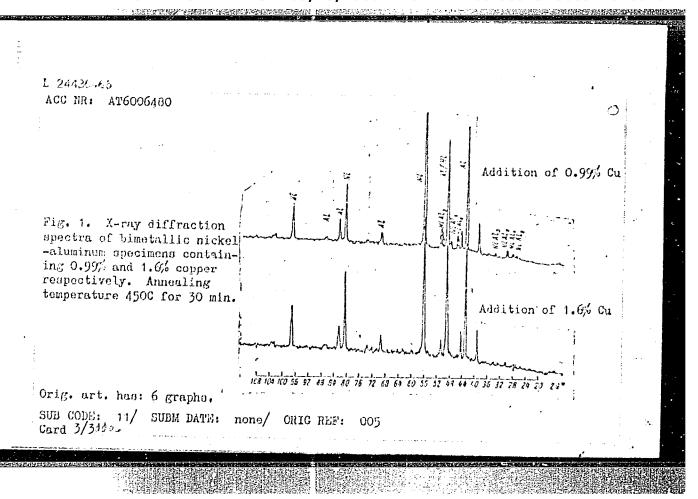
A 24436-66 ENT(m)/ENA(d)/T/ENP( ACC NR: AT6006480	E) IJP(s) JD/HM/JH SOURCE CODE: UR/2680/65/000/024/0131/0136
AUTHORS: Layner, D. I.; Kurakin,	A. K. 36
ORG: State Scientific Research a hetalworking, Moscow (Gosudarstve institut splayov i obrabotki tave	nd Design Institute of Alloys and Monferrous BH mnyy nauchno-issledovatel'skiy i proyektnyy tnykh metallov)
TITLE: The influence of the copp into aluminum	per content in aluminum on the diffusion of nickel
aplayov i obrabotki tevetnykh met	nauchno-issledovatel'skiy i proyektnyy institut sallov. Trudy, no. 24, 1965. Metallovedeniye i slavov (Metal science and the treatment of non- 38
TOPIC TAGS: nickel, aluminum, co aluminum	opper, nickel compound, aluminum plating/ AV000
work of D. I. Laynor and A.K. Ku	this investigation to extend previously published trakin (FMM, vyp. 1, 1964, t. 10, str. 145-148) whether complex ternary compounds of nickel-copper
Card 1/3	

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ACC NR: AT6006480

aluminum are formed at the aluminum-nickel interface of aluminum-clad nickel specimens, and also whether the formation of such compounds prevents the diffusion of nickel into aluminum. A number of specimens with aluminum coating containing from 0.99 to 4.0% copper was investigated. The diffusion was studied in the temperature range of 400 to 650C. The specimens were exposed to the various temperatures for a period of 30 minutes. After annealing, the nickel-aluminum interface of the specimens was subjected to microupple and x-ray analysis. The experimental results are presented graphically (see Fig. 1). It was found that annealing of aluminum-clad specimens with aluminum coating containing ~ 2% Cu leads to the formation of a thin coating of the ternary compound Cu<sub>3</sub>NiAl<sub>6</sub> at the nickel-aluminum interface of the specimens. It is suggested that the formation of such an interfacial coating should retard or prevent the diffusion of nickel into aluminum and thus prevent the deterioration of the aluminum coating of the specimens.

Card 2/3



#### KURAKIN, A. A.

A. N. Kurakin, To obtain N. N-dimethyl-aniline-m-sulfo-acid. p. 2089.

Some methods of obtaining di-methyl-aniline-m-sulfo-acid are studied. After sulfonation of di-methyl-aniline with fuming sulfuric acid, a mixture of meta- and para-sulfo-acids are obtained. A method is given for the separation of isomeric sulfo-acids based on the difference in solubilities of their calcium-salt.

Lab. of Organic Chemistry of the Ivanov Chemico-Technological Inst. August 9, 1947

SO: J. Gen. Chem. (USSR) 28, (80) No. 12, 1948

#### KURAKIN, A. H.

2. A. Shilov and A. N. Kurakin, On the theory of sulfonation of aromatic amines. p. 2092.

It is shown that the hypothesis by Alexander dealing with the mechanism of sulfonation of aromatic amines is based on inaccurate data in the literature. Some considerations concerning the actual course of the reaction of sulfonation are discussed.

Lab. of Organic Chemistry of the Ivanov Chemico-Technological Inst. August 7, 1947.

SO: J. Gen. Chem. (USSR) 28, (80) No. 12, 1948

KUPAKIH, A. H.

Kurakin, A. N.

"The Kinetics and the Mechanism of Iodization of Certain Aromatic Amino-sulfonic Acids." Min Higher Education USSR. Ivanovo Chemicotechnological inst. Ivanovo, 195h. (Dissertation for the Degree of Candidate in Chemical Sciences)

So: Knizhnaya letopis', No. 27, 2 July 1955

. Constitution of the cons

AUTHOR: Kurakin, A. N. and Shilov, Ye. A.

73-1-7/26

TITIE: Kinetics and Mechanism of the Iodination of Aromatic Amino-Sulphonic Acids in Aqueous Solutions. (Kinetika i Mekhanizm Iodirovaniya Aromaticheskikh Aminosul'fokislot v Vodnykh Rastvorakh.)

PERIODICAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, Vol. 23, No.1, pp. 31 - 53 (USSR).

ABSTRACT: The authors first give a short review of previously published work (Refs. 1 - 6). They claim that their own observations and experiments substantially supplement the theory of iodination of armotic compounds. In particular they found that not only the iodine cation but also elemental iodine can be of great importance as an iodination agent in aqueous solutions. Simpler aminobenzenesulphonic acids were selected for this experiment because they are easily soluble in water. It is shown that the simplest aniline-m-sulphonic acid iodinates extremely slowly. The 4 aminosulphonic acids (referred to hereinafter as E-acids) were: N,N-dimethylaniline-meta- and parasulphonic acids, N,N-diethylaniline-m-sulphonic acid and N-ethyl-N-phenyl-benzylamino-p-sulphonic acid. They were used in the form of their sodium salts. The whole

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73-1-7/26

Kinetics and Mechanism of the Iodination of Aromatic Amino-Sulphonic Acids in Aqueous Solutions.

work is subdivided into the following sub-sections: Compounds, methods of kinetic investigations, preliminary observations on reaction conditions of the iodination of aminosulphonic acids, symbols, salt effect during the iodination of dimethylaniline-meta-sulphonic acid, conclusions of the kinetic equations, values of the H-ion and hypoiodous acid in the iodination kinetics of the above acid, Further the values of concentration of the iodine-anion in the kinetics of iodination of dimethylaniline-m-sulphonic acid ion, the dependence of the reaction velocity on the initial iodine concentration, the coefficients of the kinetic equations of iodination of the above compound at 25°C, the kinetics of iodination of diethylaniline-m-sulphonic acid and of iodination of dimethylsulphanilate-ions, the kinetics of iodination of E-salts. Temperature coefficients and reaction parameters of iodination and the relative activity of reagents in the reaction mechanism of iodination are also discussed. These investigations were carried out in the presence as well as in the absence of buffer salts. Only free acids are suitable. The general kinetic formula of iodination Card 2/4

73-1-7/26

Kinetics and Mechanism of the Iodination of Aromatic Amino-Sulphonic Acids in Aqueous Solutions.

is as follows:  

$$-\frac{d(J)}{dt} = k_0(S^-)^2 \frac{(J)}{J^-} + k_p(S^-)^2 \frac{(J)}{(J^-)^2} + k_0^*(S^-)(HPO_4^{2-}) \frac{(J)}{(J^-)} + k_p^*(S^-)(HPO_4^{2-}) \frac{(J)}{(J^-)^2}$$

where S is the anion of the aminosulphonic acid, (J) being the analytic concentration of iodine. The velocity of iodination of N-ethyl-N-phenylbenzylamino-p-sulphonic acid is expressed by a very simple formula where members with the constants k and k' do not appear. Neutral salts form negligible reaction accelerators. Values of the relative velocities of iodination are given for the various salts. Temperature coefficients for the salts of dimethyland diethylaniline-m-sulphonic acids have increased values at 10°C(4-5), for E-salts normal values (2.5 at 10°C.) Temperatures of activisation are listed. Two variants are given for the form of the transition complex: in one case the anion of the salt (i.e. the base) enters the compound of the iodising agent, in the second case the

Card 3/4

Kinetics and Mechanism of the Iodination of Aromatic Amino-Sulphonic Acids in Aqueous Solutions.

aminosulphonate ion (i.e. the base ) appears as the proton-acceptor. There are 10 graphs, 17 tables; 27 references, 6 of which are Slavic.

AVAILABLE: Library of Congress

Card 4/4

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610020-4"

THE RESERVED OF THE PROPERTY O

ACC NR: AP7013704

SOURCE CODE: UR/0292/67/000/002/0012/0014

AUTHOR: Kurakin. A. S. (Candidate of technical sciences); Annenkov, V. B. (Engineer)

ORG: none

TITLE: Evenness of rotation of synchronous micromotors

SOURCE: Elektrotekhnika, no. 2, 1967, 12-14

TOPIC TAGS: electric motor, electric rotating equipment part, magnetic field, miniature electric equipment

SUB CODE: 10

ABSTRACT: The smoothness of rotation of rotors of various types of synchronous motors is investigated. The influence of ellipticity of the magnetic field, the polarity of the motors, heterogenity in magnetic field over length of the motor and curvature of the angular characteristic of the motor on evenness of rotation speed is shown. Recommendations are given for the creation of precision synchronous motors. The evenness of rotation rate of synchronous motors with permanent magnets can be increased by giving preference to multipole designs with increased air gap, which provides for even distribution of the field over the length of the motor, strict symmetry in the windings, high Cord 1/2

UDC: 621.313.13-181.4.001.5

ACC NR: AP7013704

specific synchronising moment and high influence on the operation of the motor of the saw-tooth fields in stator and rotor. Of the existing types of motors, the smoothest in rotation are synchronous reducing motors operating on the tooth harmonics of the field. Orig. art. has: 8 figures, 5 formulas and 1 table.

JPRS: 40,5697

ा जन्म वास्त्रकार प्रकार सामना राज्य वास्त्रकार सामना सामना है। इस वास्त्रकार ।

Card 2/2

ACC NR: AP7007068

SOURCE CODE: UR/0292/66/000/011/0022/0027

AUTHOR: Kurakin, A. S. (Candidate of technical sciences); Yuferov, F. M. (Candidate of technical sciences)

ORG: none

TITLE: Reactive type synchronous reducer motor

SOURCE: Elektrotechnika, no. 11, 1966, 22-27

TOPIC TAGS: electric motor, vector analysis

SUB CODE: 09
ABSTRACT: A presentation of problems from the theory of synchronous reducer motors of reactive type. The theoretical conclusions are supported by experimental investigations on motors in various operating modes. Formulas are presented which are necessary for calculation of the operative and mechanical characteristics of the motors. The principle operation of the synchronous reducer motor is presented and its primary power relations are defined; the conversion plan and vector diagram of the motor are presented. The differentiating point of synchronous reducer motors is the presence of open grooves on the stator and rotor. Orig. art. has: 7 figures, 16 formulas and 1 table. [JPRS: 39,577]

Card 1/1

UDC: 621.313.323.001.1

KURAKIN, Aleksandr Sergeyevich, aspirant

Field in the air gap of a reduction motor. Izv.vys.ucheb.zav.; elektromekh. 6 no.2:181-192 '63. (MIRA 16:4)

1. Kafedra elektricheskikh mashin Moskovskogo energeticheskogo instituta.

(Electric motors)

KURAKIN, Aleksandr Sergeyevich, aspirant; YUFEROV, Fedor Mikhaylovich, kand. tekhn. nauk, detsent

Principles of the operation of reducer motors. Izv. vys. ucheb. zav.; elektromekh. 7 no.2:193-208 '64. (MIRA 17:4)

1. Kafedra elektricheskikh mashin Moskovskogo energeticheskogo instituta.

CLUKHOV, V.I.; KURAKIN, A.T.; ZHERDETSKAYA, N.N., red.; REYZMAN, Ye.Ye., tokhn.red.

[Technics of sound recording for motion-picture films; experience of amateur motion-picture photographers] Tekhnika ozvuchaniia fil'ms; iz opyta raboty kinoliubitelei. Moskva, Gos. izd-vo "Iskusstvo", 1960. 35 p. (MIRA 13:4)

(Motion pictures, Talking)

ANDREYEV, G.S., kand. tekhn. nauk; BOKUCHAVA, G.V., kand. tekhn. nauk, dots.; BRAKHMAN, L.A., inzh.; BUDNİKOVA, A.V., inzh.; GORDON, M.B., kand. tekhn. nauk, dots.; ZHAVORONKOV, V.H., inzh.; KARZHAVINA, T.V., kand. tekhn. nauk; KOROTKOVA, V.G., inzh.; KORCHAK, S.N., inzh.; KLUSHIN, M.I., kand. tekhn. nauk, dots.; KUZNETSOV, A.P., kand. tekhn. nauk, dots.; KURAKIN, A.V., inzh.; LATYSHEV, V.N., inzh.; OL'KHOVSKIY, V.N., inzh.; ORLOV, B.M., kand. tekhn. nauk, dots.; OSHER, R.N., inzh.; PODGORKOV, V.V., inzh.; SIL'VESTROV, V.D., kand. tekhn. nauk [deceased]; TIKHONOV, V.M., inzh.; TROITSKAYA, D.N., inzh.; KHRUL'KOV, V.A., inzh.; LESNICHENKO, I.I., red. izd-va; SOKOLOVA, T.F., tekhn. red.; GORDEYEVA, L.P., tekhn. red.

[Lubricating and cooling fluids and their use in cutting metals] Smazochno-okhlazhdaiushchie zhidkosti pri rezanii metallov i tekhnika ikh primeneniia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 291 p. (MIRA 15:1) (Metalworking lubricants)

#### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927610020-4

12916-66 EWT(m)/EWA(d)/T DJ AP6000962 SOURCE CODE: UR/0286/65/000/022/0043/0043 AUTHOR: Kurakin, A. V. ORG: none Cooling-lubricating liquid AVK-2. Class 23, No. 176353 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 43 TOPIC TAGS: lubricant, coolant, scap, sodium compound, boric acid / AVK 2 lubricant ABSTRACT: This Author Certificate presents the cooling-lubricating liquid AVK-2 for cold machining of metals. This material is based on scap, sodium nitrite, and soda calcined in water. To improve the quality of the cooling-lubricating liquid, its composition includes boric acid and tri-ethanol amine soap of cleic acid. To increase the wetting property of the liquid, a surface-active substance (nonionogenic) is added to its composition. SUB CODE: 11/ SUBM DATE: 16Mar64 Card 1/1 N UDC: 621.892.6:621.7.016.3

KUHAKIN KA, (Moskva).

CHARLES NOT SELECTION OF THE LOCAL

Mynthesis of linear servosystems using the criterion of minimum of practically critical reproduction error [with summary in English]. Avtom. i telem. 18 no.5:409-426 My 157. (MIRA 10:8) (Servomechanisms)

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-F

CIA-RDP86-00513R000927610020-4

L 46172-66 ENT(m)/ENP(j) IJP(c) DJ/IM SOURCE CODE: UR/0138/66/000/003/0016/0018

AUTHOR: Epshteyn, V. G.; Vasil'yev, G. Ya.; Serov, I. A.; Kurakin, K. A.; Iyapina, L. A.; Polyak, M. A.

ORG: Yaroslavl Technological Institute (Yaroslavskiy tekhnologicheskiy institut)

TITIE: New type of softener with an aromatic base

SOURCE: Kauchuk 1 rozina, no. 3, 1966, 16-18

TOPIC TAGS: rubber chemical, petroleum product, plasticizer

ABSTRACT: In order to broaden the source of raw materials for the rubber industry, an extract named "azaroplast" (Azerbaydzhan aromatic plasticizer) bottained from the furfural purification of lubricating oils of Baku crudes, was tested as a softener. Azaroplast was tested in comparison with other commonly used softeners in standard mixes based on NK natural rubber and butadione-styrene'SKS-30ARK rubber and in a tread mix consisting of 70% SKS-30ARK and 30% NK. The tests showed azaroplast to surpass the other softeners in plasticizing effect. The vulcanization rate of mixes containing azaroplast was practically the same as that of mixes with the other softeners. Vulcanizates of standard mixes based on NK and SKS-30ARK and containing azaroplast had increased strength characteristics. Replacement of mazut with azaroplast in tread mixes will permit a considerable increase in the extrusion rate and produce higher strength

Card 1/2

UDC: 678.049.37.004.12

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Card 2/2	DIA				
Card 2/2	tha				

KURAKIN, K.I.

Dep Min of Communications Equipment Ind (c-1951-)

Radio

"The Soviet Radio Industry in 1951, "Radio No 5, 1951

PA 1627106

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610020-4"

KURAFIN, K.I.

K voprosu o kachestve slediashchibh sistem i sistem avtomaticheskogo regulirovaniia. (Avtomatika i telemekhanika, 1951, v. 12, no. 2, p. 97-122, diagrs., bibliography)

Title tr.: Characteristics of follow-up and automatic control systems.

TJ213.A453 1951

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

KURAKIN, K.I.

Physics

"Problem Concerning the Quality of Follower Systems and Automatic Regulation Systems," Avtomat. i Telemekh., 12, No. 2, 1951

PA 187T73

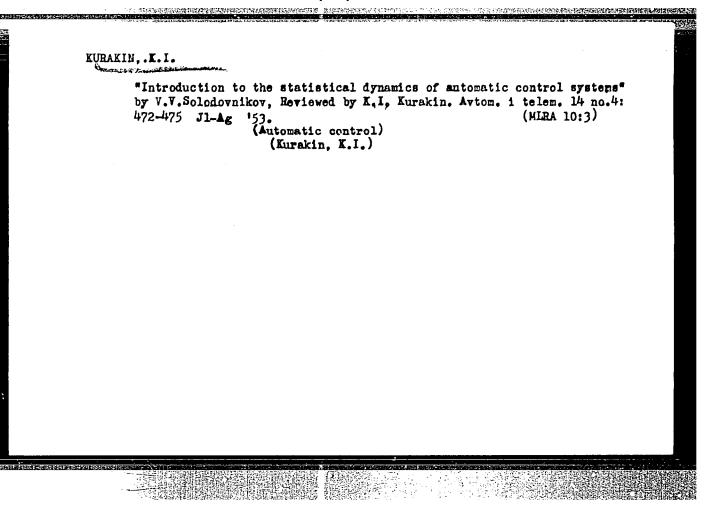
#### KURAKIN, K. I.

"Selection of Optimum Characteristics of Linear Follow-Up Systems (I)", Avtomatika i Telemekhanika, Vol 14, No 4, 1953, pp 392-402.

Determine the optimum transfer function of a linear follow-up system based on the criterion of the minimum least-square error for a case when the disturbance is distributed uniformly over the entire spectrum of the operating frequencies, and the reproducible quantity is a stationary random function.

It is demonstrated that the optimum of a follow-up system is of tained with a statism of the first order. Bibliography, 9 titles. (RZhYekh, No 11, 1954) SO: Sum No. 443, 5 Apr. 55

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610020-4"



KURAKIN, K. I.
PETHOV, B.N.; TSYPKIN, Ya. Z.; KURAKIN, K.I.; TIKHONOV, V.I.; SIYITSYN, A.S.

Resolutions of the committee selected by the seminar on the theory of automatic control after discussing. V. V. Solodovnikov's book "Introduction to the statistical dynamics of automatic control systems". Avtom. i telem, 14 no.4:477 Jl-Ag '53. (MIRA 10:3)

(Automatic control)

KURAKIN, K.I.

SUBJECT

USSR/MATHEMATICS/Theory of probability CARD 1/2 PG - 557

AUTHOR

KURAKIN K.I.

TITLE

On the choice of the optimal characteristic linear differentiators

in automatic control systems.

PERIODICAL

Avtomat. Telemech. 16, 293-299 (1955)

reviewed 1/1957

The following problems of the servomachanisms are considered: 1) The (in the sense of Wiener) optimal transferring function of a differentiator is determined in the case when the entrance function has the form  $\beta_i(t) + \beta_n(t)$  (entrance function + component of disturbance), where  $\beta_i(t)$  and  $\beta_n(t)$  both are stationary stochastic processes and  $\beta_i(t)$  has an expectation value zero,  $\beta_n(t)$  has a constant spectral density; furthermore  $\beta_i(t)$  has a spectral density of the type  $A/\omega^2(a^2+\omega^2)$  (A, a const.). The mean quadratic error which occurs by producing the derivatives is computed too. 2) The optimal transferring function is computed for a system which is suitable for the simultaneous representation of the entrance function and its derivatives, provided that the spectral density of the derivatives of the entrance function has the form

 $\mathbb{A}/\omega^2(a^2+\omega^2)(b^2+\omega^2) \qquad (A, a, b const.)$ 

Avtomat. Telemech. 16, 293-299 (1955)

CARD 2/2

PG - 557

THE RESERVE THE RE

and that of the disturbance is constant again. The author proves that the optimal differentiation in essential can always be reduced to a problem of the optimal filtration.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610020-4"

SOV/124-58-8-8414

THE STREET STREET STREET STREET, STREET STREET, STREET

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 10 (USSR)

AUTHOR: Kurakin, K. I.

TITLE: Quality Criteria and Their Application to the Selection of Optimal

Characteristics of Linear Automatic-control Systems (Kriterii kachestva i ikh primeneniye pri vybore optimal'nykh kharakteristik

lineynykh sistem avtomaticheskogo regulirovaniya)

PERIODICAL: Tr. 2-go Vses. soveshchaniya po teorii avtomaticheskogo

regulirovaniya. Vol 2, Moscow-Leningrad, Izd-vo AN SSSR, 1955,

pp 442-456

ABSTRACT: Based on the least mean-square reproduction error, optimum

transfer functions for a system of differentiation, tracking, etc., are determined for one case of a random input signal and noise. A relationship is given between the system's error coefficients and its normal reaction per unit input jump. Included is a comparison of the least-mean-square reproduction-error criterion with the

integral quality criteria for servo systems.

Card 1/1 V. V. Solodovníkov

KURAKIN, K.I. (Nogkva)

Selection of optimum characteristics of linear servo-systems.
Part 2. Avtom. 1. telem. 17 no.7:648-663 J1 '56. (MLRA 9:10)

(Servomechanisms)

PA - 3227 The Synthesis of Linear Servosystems Using the Criterion of AUTHOR Minimum of Practically Critical Reproduction Error. TITLE (Sintez lineynykh sledyashchikh sistem na osnove kriteriya minimuma prakticheski predelinoy oshibki vospreizvedeniya.-Avtomatika i Telemekhanika 1957, Vol 18, Nr 5, pp 409-426 Russian.) PERIODICAL Reviewed: 7/1957 (USSR) Received: 6/1957 The paper under review describes a method for determining an optimal function of the transmission for a supervisory ABSTRACT system with parameters that are constant with respect to time. This method represents a further development of a method described by the same author in Avtomatika i Telemekhanika 1953, Vol 14, Nr 4, namely for the case where the subsequently formed initial quantity is a given slowly varying function and where perturbations are evenly distributed over the entire spectrum of the operation frequencies. The further development of that method is based CARD 1/2

The Synthesis of Linear Servosystems Using the Criterion of Minimum of Practically Critical Reproduction Error.

on the application of the criterion for the minimum of the practical boundary error of the subsequent formation; this criterion was described by the same author in Avtomatika i Telemekhanika 1951, Vol 12, Nr 2. The paper under review contains general formulae for the determination of the error coefficients, of the amplitude characteristics, and of the phase-frequency characteristics, of the stability reserve in the phase, of the normal reaction to a jumplike initial signal, and of other dynamic characteristics of an optimal supervisory system. Methods are given for purpose of realization of optimal functions of transmission for a supervisory system with the aid of correcting installtions operating with direct current.

(10 reproductions, 5 Slavic references.)

ASSOCIATION: not given.

PRESENTED BY: -

SUBMITTED: 13. April 1955.

AVAILABLE: Library of Congress.

CARD 2/2

AUTHOR: Kurakin, K. I. (Moscow) 103-19-5-3/14 TITLE: An Analytical Method of Synthesis of Linear Control Systems in the Presence of Disturbances and a Given Dynamic Precision (Analiticheskiy metod sinteza lineynykh sistem avtomaticheskogo upravleniya pri nalichii pomekh i zadannoy dinamicheskoy tochnosti) PERIODICAL: Avtomatika i Telemekhanika, 1958, Vol. 19, Nr 5, pp. 408-417 (USSR) The problem is solved here in which manner, starting ABSTRACT: from the optimum but generally speaking non-realizable characteristics obtained in reference to the physically realizable characteristics as little as possible deviating from the optimum ones can be determined. The formula (7) for the total error of control is derived. The last term of the sum in (7) determines the systematic error of control. Then the optimum characteristics of control are determined. Equation (17) is derived. The solution of this equation shows that the transmission function of a Card 1/3 closed control system depends on p and e-PT. This leads

An Analytical Method of Synthesis of Linear Control Systems in the Presence of Disturbances and a Given Dynamic Precision

103-19-5-3/14

to the fact that the frequency characteristics corresponding to the function contain undamped oscillation components. In contrast to reference 14 an analytical method of approximation not of frequency characteristics but of a direct approximation of the transmission function: .  $K(p, e^{-pT})$  is suggested here. In order to obtain the function K(p) in a rational form,  $e^{-pT}$  is approximated with the aid of the rational Pade-function (Reference 16). The approximation of the transcendental function e-PT with the aid of the rational Pade-function guarantees the obtaining of the optimum transmission functions for the automatic control systems (which were determined in references 10 and 14) directly in a form usable in practice. Two examples for the employment of the described method are given. They show the practical usability of the method for the solution of problems for optimum conditions in the presence of disturbances and given requirements regarding the dynamic precision.

Card 2/3

There are 1 figure 16 references, to of which are Soviet.

An Analytical Method of Synthesis of Linear Control Systems in the Presence of Disturbances and a Given Dynamic Precision

103-12-5-3/14

SUBMITTED:

March 26, 1957

AVAILABLE:

Library of Congress

1. Mathematical computers—Control 2. Mathematical computers

--Operation

Card 3/3

8.2000

Kurakin, K. I., Condidate of

Technical Sciences

6<del>6030</del> 64630

5/119/60/000/05/009/01/ E014/B007

TIPLE:

AUTHOR:

An Instrument for Recording the Amplitude- and Phase-

Frequency Chambers to

Priborostroyeniye, 1960, Nr 5, op 10-12 (BUTE)

OEXI: The author first discusses the instrument produced for the purpose questions of recording the frequency characteristics of retorable recording the frequency characteristics of retorable recording in the supervision of V. B. Hebakov (Ref. 1). This is a structure consists of a recording for the formula of the supervision of the su atrument consists of a presentor for lev-frequency simusoidal oscillations. an ultra-low-freenency object and frequency mater, a peak-reading volta meter, a nomentation rectific, and an electronically stabilized current polar, a componentian modifier, and an electronically stabilized current neuron. Further, a universal regions of the short in figure 1, is discussed.

The relia subject of the appearance is the decription of a test instructed developed by the author (set A), which is designed for recording the rest developed by the author (set A), which is designed for recording the conditions and short from the black conditions and short from the black conditions. amplitude- and phase-frequency characteristic. As may be seen from the block diagram shown in figure 2, the instrument consists of a voltage generator for hedulated and non-modulated alternation voltages within the frequency

Card 1/2

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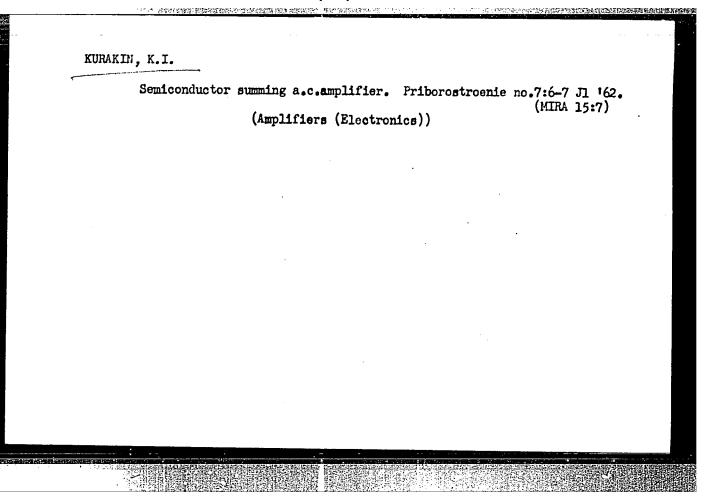
An Instrument for Recording the Applitude and Phase-Frequency Characteristic

\$/119/60/000/05/05/05/01/ B014/B007

range of from 0 to 10 c, of a neasuring instrument for the phase shift and the amplitude ratio at the in and output of the device to be tested. The modulated minusoidal input arguets are obtained from two selegms. Recentisment of the phases and the applicate ratio as encured out vimility on the fluorescent screen of a correge may take an which breedown it was a considered observed. The instrument permits the easy determination of the classical scientific research organizations but also under conditions of industrial work. There are 5 figures and 5 references. A of which are Soviet.

X

Card 2/2



9.2530

S/119/62/000/011/001/002 D201/J308

. Willion:

Kurakin, H.I.

TTTTL:

- magnetic-semiconductor servo-amplifier for followup systems with a two-phase induction motor

PHATONIA. I.:

riborostroyeniya, no. 11, 1962, 15-18

The servo-amplifier consists of a 400 c/s transistorized pre-amplifier and a fast operating two-stage half-wave bridge-type magnetic amplifier with flexible positive and negative D.C. feedback. The types of magnetic materials, transistors and transformers are given. The circuit diagram and the operation of the unit is discussed. The expression for the overall transfer function for the unit is derived under the assumption that the transistorized pre-amplifier is inertialess and linear. The servo-amplifier is pultable for use in low-power internal follow-up systems with A.C. pick-ups provided a signal limiting stage is incorporated at the pre-amplifier input to avoid sharp decreases of the load voltage, inherent in the control of bridge-type half-wave magnetic amplifiers. There are 5 figures.

CONTRACTOR OF THE CONTRACTOR O

KURAKIN, K.I., kand. tekhn. nauk

"Design of discrete control systems" by L.T.Kuzin. Reviewed by K.I.Kurakin. Priborostroenie no.1:30-31 Ja '63. (MIRA 16:2)

(Automatic control)

(Kuzin, L.T.)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610020-4"

# "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927610020-4

L 15512-63

EDS

ACCESSION NR: AP3006402

\$/0119/65/000/008/0018/0020

AUTHOR: Kurakin, K. I.

Improved electromechanical a-c integrator 10

SOURCE: Priborostroyeniye, no. 8, 1963, 18-20

TOPIC TAGS: electromechanical ac integrator, integrating circuit, integrating network, integrator, integrating error, integrating servosystem, digital computer integrator, asynchronous tachogenerator

ABSTRACT: The dynamic accuracy of an improved electromechanical servo a-c integrator (functional diagram shown in Fig. 1 of the Enclosure) is analyzed. kotary sine-cosine control transformer M1 serves as the input element. The stator winding of M<sub>1</sub> is energized by 400-cps ac from a velocity transducer installed on a moving body. Induction tachogenerator M2 serves as the final control member of the servosystem and is coupled with actuating two-phase motor  $M_3$ . A compensator consisting of  $R_1$ ,  $R_2$ ,  $R_3$ , and  $C_1$  and voltage dividers  $R_5$  and  $R_5$  is used for controlling the quadrature voltage of  $M_2$ . The error signal is applied through transformer  $Tr_5$  to transistorized servoamplifier a. The input of  $Tr_5$  is provided with an error signal voltage limiter which consists of

Card 1/32

CIA-RDP86-00513R000927610020-4" **APPROVED FOR RELEASE: 08/23/2000** 

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ACCESSION NR: AP3006402

silicon junction diodes D<sub>1</sub> and D<sub>2</sub>. In order to eliminate quadrature voltage which may appear under various climatic conditions the servosmplifier is provided with an automatic compensator, designed as a quadrature-voltage negative feedback. According to experimental data the relative error of the integrator did not exceed +0.2% in the temperature range from -10 to +40C. Integrator sensitivity, which corresponds to the maximum velocity, is not less than +1 angular minute. Backlash in the gears between the motor and tachogenerator was within 10—15 angular minutes. The speed control factor was at least 5000. Orig. art. has: 4 figures and 10 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 23Sep65

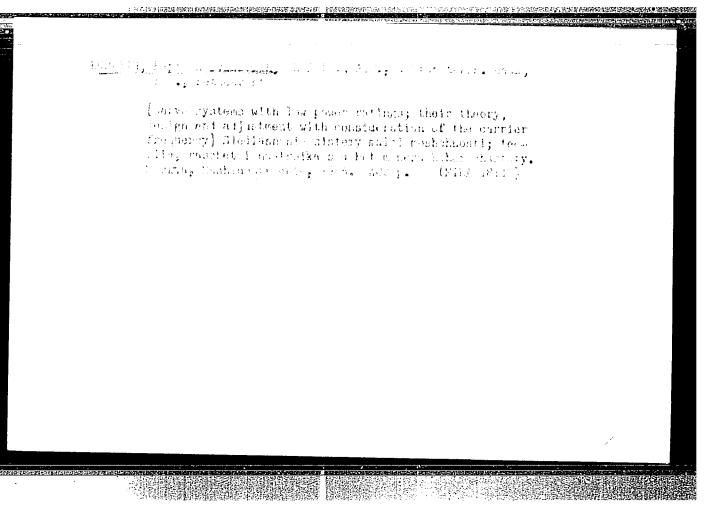
ENCL: 01

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NO REF SOV: 000

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#### "APPROVED FOR RELEASE: 08/23/2000

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Monograph

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Kurakin, Kapiton Ivanovich

Low-power servosystems; theory, design and tuning taking carrier frequency into account (Sledyashchiye sistemy maloy moshchnosti; teoriya, raschet i nastroyla s uchetom nesushchey chastoty) Moscow, Izd-vo "Mashinostroyeniye", 65. 0402 p. illus., biblio. Errata slip inserted. 8,000 copies printed.

TOPIC TAGS: servosystem, alternating current, carrier frequency, phase detector

PURPOSE AND COVERAGE: The book presents methods of the theory, design and tuning of low-power servosystems, operating on an alternating current. A detailed analysis and synthesis of the correcting devices of alternating current is presented, and passive correcting circuits with phase-sensitive synchronous detection are examined. Statistical methods of the synthesis of servo-systems in the presence of interferences and a fixed dynamic accuracy are dealt with extensively. The book is intended for scienctific workers, builders and engineers working on the design and manufacture of servosystems, and can also be useful for students of higher technical schools and aspirants of the corresponding specialties.

TABLE OF CONTENTS (abridged);

Foreward --3

Ch. I. Principle elements of servosystems

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Card 1/2

VDC: 629.13:62-503.23

	Principle tames of an artist to the second s
h. IV.	Principle types of sorvosystems and their operational characteristics44 Principles theories of sevosystems of alternating current103 Analysis and synthesis of correcting devices of alternating current201 Calysis and synthesis of correcting devices of alternating current201
1	Servosystems and their deathering devices of alternating current
1. VI. Si 1r	nterferences and a fixed dynamic account the presence of
J. ATI.	Experimental methods of optimum tuning of servosystems379
UB CODE:	O9 /SUBM DATE: 21Feb65/ ORIG REF: 053/ OTH REF: 048
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KURAKIN, L. A.

"Circuits for Obtaining a Sawtooth Current for a Horizontal Ray Deflection in Television Cathode-Ray Tubes." Cand Tech Sci, Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov, Min Higher Education USSR, Moscow, 1955. (KL, No 18, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

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Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, p 277 (USSR)

AUTHOR: Kurakin, L. A.

TITLE: Linearization of the Deflecting Current in a Vertical TV Sweep

PERIODICAL: Tekhnika kino i televideniya, 1958, Nr 4, pp 35-41

ABSTRACT: From analysis of an equivalent circuit of a vertical-sweep output anode circuit, a relationship between the tube and deflecting-coil currents is drawn. The minimum average-current value determines the most economical conditions. It can be attained when the inductance of the anode winding of a

vertical-sweep transformer is  $\frac{RT}{2\sqrt{3}}$  , where R is the resistance of the output

winding and the vertical-sweep coils reduced to anode-circuit terms, and T is the time of the vertical-sweep forward swing. To attain the desired linearity, the output-tube control voltage must appreciably differ from linear. The distortion needed can be achieved by special fourpoles or by using a frequency-

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Linearization of the Deflecting Current in a Vertical TV Sweep

selective feedback. A feedback by means of an additional winding of the output vertical transformer is considered. The conditions for best linearity are

I.S.Z.

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MILLER, Viktor Aleksandrovich; KURAKIN, Lev Anatolyevich; GERUS, V.L., red.; LARIONOV, G.Ye., tekhn. red.

[Electron-beam receiving tubes; their properties and parameters] Priemnyo elektronno-luchevye trubki (svoistva i parametry). Moskva, Izd-vo "Energiia," 1964. 367 p.

(MIRA 17:2)

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BUTUZOVA, K., strakhovoy delegat, tokar', udarnik kommunisticheskogo truda
(Kalinin); KURAKIN, M., strakhovoy delegat, strogal'shchik (Kalinin)

What one can't do, all together master. Okhr.truda i sots.
strakh. 5 no.10:20-21 C '62. (MIRA 15:11)
(Railroads—Cars—Construction)
(Kalinin—Industrial hygiene)

ANESH, I.F., inzh. KURAKIN, 4.G., tekhnik

Power takeoff from 35 kv. lines for the power supply of repair stations. Energetik no.9:29-30 S \*164. (MIRA 17:10)

AMESH, I.P., inwh. (g. Orenburg); KURAKIN, M.G., tekhnik (g. Orenburg)

Assembling of a composite 35/10 km. transformer substation.

Energetik 13 no.8:19-20 Ag 165. (MIEA 18:9)

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